Aiqin Hou

List of Publications by Year
in descending order

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71 papers	1,642 citations	257101 24 h-index	344852 36 g-index
71 all docs	71 docs citations	71 times ranked	1421 citing authors

#	Article	IF	Citations
1	The effect of degree of curvature and fabric orientation on the impact properties of single and multilayer textile composites. Journal of the Textile Institute, 2022, 113, 54-59.	1.0	0
2	A supersensitive fluorescent probe for biothiols by regulating the click reaction and its application in glutathione detection in food samples. Dyes and Pigments, 2022, 200, 110164.	2.0	9
3	Multi-functional fluorescence cellulose composites based on a modified amphiphilic waterborne polyurethane by covalent suspension of the triazine groups. Progress in Organic Coatings, 2021, 158, 106386.	1.9	2
4	Extraction of Natural Dye from Aerial Parts of Argy Wormwood Based on Optimized Taguchi Approach and Functional Finishing of Cotton Fabric. Materials, 2021, 14, 5850.	1.3	18
5	Synthesis of novel green reactive dyes and relationship between their structures and printing properties. Dyes and Pigments, 2020, 174, 108079.	2.0	29
6	Rapid and environmental-friendly continuous gel-dyeing of polyacrylonitrile fiber with cationic dyes. Journal of Cleaner Production, 2020, 274, 122935.	4.6	10
7	Effect of Reactive Dye Structures and Substituents on Cellulose Fabric Dyeing. Fibers and Polymers, 2020, 21, 2018-2023.	1.1	7
8	Light-controllable antibacterial composite films based on modified waterborne polyurethane. Progress in Organic Coatings, 2020, 149, 105940.	1.9	9
9	Synthesis and Dyeing Properties of New Bi-heterocyclic Disperse Dyes Containing Pyridone Group for Polyester Fabrics. Fibers and Polymers, 2020, 21, 1743-1749.	1.1	5
10	Light- and Humidity-Responsive Chiral Nematic Photonic Crystal Films Based on Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2020, 12, 24505-24511.	4.0	76
11	3D heterogeneous CTF@TiO2/Bi2WO6/Au hybrid supported by hollow carbon tubes and its efficient photocatalytic performance in the UV-vis range. Environmental Science: Nano, 2020, 7, 2061-2072.	2.2	11
12	Assembly of a Fluorescent Chiral Photonic Crystal Membrane and Its Sensitive Responses to Multiple Signals Induced by Small Molecules. ACS Nano, 2020, 14, 7380-7388.	7.3	42
13	Efficient extraction of cellulose nanocrystals from waste Calotropis gigantea fiber by SO42-/TiO2 nano-solid superacid catalyst combined with ball milling exfoliation. Industrial Crops and Products, 2020, 152, 112524.	2.5	25
14	Light-Induced Production of Reactive Oxygen Species by a Novel Water-Soluble Benzophenone Derivative Containing Quaternary Ammonium Groups and Its Assembly on the Protein Fiber Surface. ACS Applied Materials & Interfaces, 2019, 11, 26500-26506.	4.0	26
15	Effect of Calcium Chloride on Dyeing Property of Polyamide 66 Based on Reactive Anthraquinone Dyes with Different Structure. Fibers and Polymers, 2019, 20, 2140-2145.	1.1	5
16	Smart color-changing paper packaging sensors with pH sensitive chromophores based on azo-anthraquinone reactive dyes. Sensors and Actuators B: Chemical, 2019, 286, 362-369.	4.0	73
17	Efficient antimicrobial silk composites using synergistic effects of violacein and silver nanoparticles. Materials Science and Engineering C, 2019, 103, 109821.	3.8	20
18	Preparation of high-aspect-ratio cellulose nanocrystals by solvothermal synthesis followed by mechanical exfoliation. Cellulose, 2019, 26, 5937-5945.	2.4	8

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19	Controllable wavelength-selective optical composite based on nano-polymeric films with doped dyes. Composites Science and Technology, 2019, 172, 1-6.	3.8	3
20	Low liquor dyeing of cotton fabric with reactive dye by an eco-friendly technique. Journal of Cleaner Production, 2018, 197, 1480-1487.	4.6	39
21	Novel reactive dyes with intramolecular color matching combination containing different chromophores. Dyes and Pigments, 2018, 159, 576-583.	2.0	21
22	Silicone nanomicelle dyeing using the nanoemulsion containing highly dispersed dyes for polyester fabrics. Journal of Cleaner Production, 2018, 200, 48-53.	4.6	16
23	Functional modification of cellulose fabrics with phthalocyanine derivatives and the UV light-induced antibacterial performance. Carbohydrate Polymers, 2018, 201, 382-386.	5.1	19
24	Light-induced antibacterial and UV-protective properties of polyamide 56 biomaterial modified with anthraquinone and benzophenone derivatives. Materials and Design, 2017, 130, 215-222.	3.3	31
25	Efficient Photocatalytic Activity of TiO2 Nanocrystals Modified with Organic Electron Donor and Barium Doping for Azo Group Decomposition Under UV Irradiation. Catalysis Letters, 2017, 147, 2697-2705.	1.4	0
26	Dyeing properties of the disperse dyes containing cyano group based on benzisothiazole for polyester fabrics under alkali condition. Fibers and Polymers, 2017, 18, 1956-1961.	1.1	14
27	Cleaner production applied to urea-free printing of cotton fabrics using polyethylene glycol polymers as alternative additives. Journal of Cleaner Production, 2016, 124, 126-131.	4.6	25
28	Crystallographic study of two monoazo disperse dyes with a <scp>D</scp>â€“Ï€â€“<scp>A</scp> system. Coloration Technology, 2015, 131, 38-42.	0.7	12
29	UV Light-Induced Generation of Reactive Oxygen Species and Antimicrobial Properties of Cellulose Fabric Modified by 3,3â€²,4,4â€²-Benzophenone Tetracarboxylic Acid. ACS Applied Materials & Interfaces, 2015, 7, 27918-27924.	4.0	41
30	Dispersion of disperse yellow BROB with polymer surfactants and its dyeing property for polyester fabric. Fibers and Polymers, 2015, 16, 614-620.	1.1	13
31	Crystal morphology, dispersing stability and dyeing property of the disperse dye based on benzisothiazole. Pigment and Resin Technology, 2014, 43, 365-370.	0.5	4
32	Preparation of multi-functional cellulose containing huge conjugated system and its UV-protective and antibacterial property. Carbohydrate Polymers, 2014, 114, 392-398.	5.1	23
33	Morphological structures of the cellulose hybrids containing polyhedral oligomeric silsesquioxane and their application for removing C.I. Reactive Red 250. Fibers and Polymers, 2014, 15, 1399-1405.	1.1	5
34	Multifunctional finishing of cotton with 3,3â€²,4,4â€²-benzophenone tetracarboxylic acid: Functional performance. Carbohydrate Polymers, 2013, 96, 435-439.	5.1	29
35	Oneâ€step dyeing of polyethylene terephthalate fabric, combining pretreatment and dyeing using alkaliâ€stable disperse dyes. Coloration Technology, 2013, 129, 438-442.	0.7	23
36	Multifunctional finishing of cotton fabrics with 3,3â€²,4,4â€²-benzophenone tetracarboxylic dianhydride: Reaction mechanism. Carbohydrate Polymers, 2013, 95, 768-772.	5.1	55

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37	Preparation and UV-protective properties of functional cellulose fabrics based on reactive azobenzene Schiff base derivative. Carbohydrate Polymers, 2012, 87, 284-288.	5.1	38
38	The effects of functional polysiloxane resins on the color gamut and color yield of dyed polyester. Color Research and Application, 2012, 37, 72-75.	0.8	2
39	Selfâ€emulsifying polysiloxanes containing multiâ€cationic groups as resin to improve fastness properties of dyed cellulose fabrics. Pigment and Resin Technology, 2011, 40, 111-117.	0.5	1
40	Decolorisation of reactive dye wastewater and the effect of surfactants using laccase. Coloration Technology, 2011, 127, 200-204.	0.7	10
41	Using supercritical carbon dioxide as solvent to replace water in polyethylene terephthalate (PET) fabric dyeing procedures. Journal of Cleaner Production, 2010, 18, 1009-1014.	4.6	105
42	Preparation and characterization of silk/silica hybrid biomaterials by solâ€“gel crosslinking process. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 167, 124-128.	1.7	28
43	Uniform dispersion of silica nanoparticles on dyed cellulose surface by solâ€“gel method. Carbohydrate Polymers, 2010, 79, 578-583.	5.1	21
44	Low temperature bleaching of cellulose fabric with (N-[4-triethylammoniomethyl]-benzoyl) caprolactam chloride as novel cationic activator for H2O2 bleaching. Carbohydrate Polymers, 2010, 82, 618-622.	5.1	23
45	Preparation and Characterization of the Hybrids Containing Silica Nanoparticles by Sol-Gel Crosslinking Process. Journal of Dispersion Science and Technology, 2010, 31, 1254-1259.	1.3	2
46	Synthesis and Characterization of Functionalized Polyorganosiloxanes Containing Amino and Fluorocarbon Side Chains. Journal of Dispersion Science and Technology, 2010, 31, 321-326.	1.3	2
47	Color Analysis of the Nano-Structured Dyed Cellulose Materials containing Inorganic Particles. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	0.4	10
48	Preparation of the cellulose/silica hybrid containing cationic group by solâ€“gel crosslinking process and its dyeing properties. Carbohydrate Polymers, 2009, 77, 201-205.	5.1	58
49	Self-assembly of the polysiloxane modified with cationic and perfluorocarbon groups on the polyester surface and its effect on the color shade of the dyed polyester. Journal of Polymer Research, 2009, 16, 687-692.	1.2	15
50	Polymerization and surface active properties of water-soluble amphiphilic polysiloxane copolymers modified with quaternary ammonium salts and long-carbon chain groups. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 163, 99-104.	1.7	21
51	The crystal morphology of C. I. Disperse Blue 79 in supercritical carbon dioxide. Dyes and Pigments, 2009, 82, 71-75.	2.0	9
52	Preparation and characterization of durable antibacterial cellulose biomaterials modified with triazine derivatives. Carbohydrate Polymers, 2009, 75, 328-332.	5.1	99
53	Modifying Cellulose with the Emulsion of the Triazine Derivative Containing the Tertiary Amino Group to Improve the Reactivity with Reactive Dyes. Journal of Dispersion Science and Technology, 2009, 30, 643-648.	1.3	17
54	Preparation and Properties of the Emulsions of the Polysiloxane Material Modified with Tertiary Amino Side Chain. Journal of Dispersion Science and Technology, 2009, 30, 1474-1480.	1.3	12

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55	Preparation of Microemulsions of the Polysiloxanes Modified with Different Amines and Their Effect on the Color Shade of Dyed Cellulose. Journal of Dispersion Science and Technology, 2009, 31, 102-107.	1.3	15
56	Synthesis of fluorineâ€containing acrylate copolymer and application as resins on dyed polyester microfiber fabric. Journal of Applied Polymer Science, 2008, 108, 1778-1782.	1.3	47
57	Dyeing and diffusion properties of modified novel cellulose with triazine derivatives containing cationic and anionic groups. Carbohydrate Polymers, 2008, 72, 646-651.	5.1	40
58	Effect of microwave irradiation on the physical properties and morphological structures of cotton cellulose. Carbohydrate Polymers, 2008, 74, 934-937.	5.1	54
59	Preparation and surface properties of the polysiloxane material modified with fluorocarbon side chains. European Polymer Journal, 2008, 44, 1696-1700.	2.6	30
60	Synthesis, Properties, and Application of Cationic Reactive Disperse Dyes Containing Quaternary Group. Journal of Dispersion Science and Technology, 2008, 29, 436-439.	1.3	22
61	Chemical Graft of Cellulose with the Ion-Pair Emulsion Containing the Reactive Groups and Its Dyeing Properties. Journal of Dispersion Science and Technology, 2008, 29, 1385-1390.	1.3	29
62	Diffusion properties of reactive dyes into net modified cotton cellulose with triazine derivative. Journal of Applied Polymer Science, 2007, 103, 2166-2171.	1.3	14
63	Chemical and morphological structures of modified novel cellulose with triazine derivatives containing cationic and anionic groups. Carbohydrate Polymers, 2007, 70, 285-290.	5.1	21
64	The surface polymerising of fluoromonomer and the shadeâ€darkening effect on dyed polyester microfibre fabric. Coloration Technology, 2007, 123, 293-297.	0.7	21
65	New polymer materials based on silicone-acrylic copolymer to improve fastness properties of reactive dyes on cotton fabrics. Journal of Applied Polymer Science, 2006, 100, 720-725.	1.3	30
66	Dyeing properties of net-modified cotton fabric with triazine derivative containing the multireactive and multicationic groups. Journal of Applied Polymer Science, 2006, 100, 4388-4392.	1.3	15
67	The morphological structures of net-modified cotton cellulose with triazine derivative containing multireactive groups. Journal of Applied Polymer Science, 2006, 101, 2700-2707.	1.3	8
68	Kinetics of dyeing of polyester with CI Disperse Blue 79 in supercritical carbon dioxide. Coloration Technology, 2005, 121, 18-20.	0.7	30
69	Study on the leveling properties of derivatives of polyethylene glycol for supermilling acid dyes on wool fabrics. Journal of Applied Polymer Science, 2005, 98, 1922-1926.	1.3	2
70	One-bath dyeing of wool/acrylic blends with reactive cationic dyes based on monofluorotriazine. Coloration Technology, 2004, 120, 307-310.	0.7	15
71	Effect of supercritical carbon dioxide dyeing conditions on the chemical and morphological changes of poly(ethylene terephthalate) fibers. Journal of Applied Polymer Science, 2004, 92, 2008-2012.	1.3	28